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 AN 134:284743 CA  
 TI Concrete composition containing industrial wastes  
 IN Gheorghe, Maria; Popescu, Maria; Voinitchi, Constantin; Manolache,  
 Stefanica; Nicolae, Liviu  
 PA Rom.  
 SO Rom., 8 pp.  
 CODEN: RUXXA3  
 DT Patent  
 LA Romanian  
 IC ICM C04B018-04  
 ICS C04B018-08; C04B028-04  
 CC 58-2 (Cement, Concrete, and Related Building Materials)  
 Section cross-reference(s): 60

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	<u>RO 115716</u>	B1	20000530	RO 1998-221	19980209

AB The concrete compn. contains **Portland cement**, sand  
 with 7 mm particle size, and sludge resulting from clarifying waste  
 waters  
 after treating waste solns. from Cd and Cr electrochem. deposition, to  
 which are added: **slag** with .gtoreq.44.8% CaO content,  
fly ash, lime, silica fume, and **sodium**  
silicate water proofing additive. The waste waters are treated  
 for cyan removing with sodium hypochlorite, and for reducing Cr6+ to Cr3+  
 with ferrous sulfate. Formation of calcium hydrosilicates reduces  
 permeability and enhances durability of the matrix.  
 ST **portland cement** sludge modifier **sodium**  
**silicate** concrete manuf  
 IT